## WHAT IS CLAIMED IS:

1. A complementary thin film transistor circuit, comprising:

a first-conductivity-type thin film transistor and a second-conductivity-type thin film transistor formed using single crystal grains, the single crystal grains being formed substantially centered on each of a plurality of starting-point portions disposed on an insulating surface of a substrate,

the first-conductivity-type thin film transistor and the second-conductivity-type thin film transistor formed by equalizing their drain current directions, and formed in the single crystal grains in which at least the channel regions of the first-conductivity-type thin film transistor and the second-conductivity-type thin film transistor have the same plane orientation.

- 2. The complementary thin film transistor circuit according to claim 1, the channel regions of the first-conductivity-type thin film transistor and the second-conductivity-type thin film transistor formed in one single crystal grain.
- 3. The complementary thin film transistor circuit according to claim 1, further comprising:

electric field relief regions which are formed at both sides of the channel regions of the first-conductivity-type thin film transistor and the second-conductivity-type thin film transistor, the channel regions being sandwiched between the electric field relief regions, which are composed of low-concentration impurity regions,

the electric field relief regions and the channel regions formed in the same single crystal grain.

- 4. The complementary thin film transistor circuit according to claim 1, the channel region formed in a region in the single crystal grain that does not include the starting-point portion.
- 5. The complementary thin film transistor circuit according to claim 4, the first-conductivity-type thin film transistor and the second-conductivity-type thin film transistor are formed in a semiconductor film in which the single crystal grain is patterned in a U shape.
- 6. The complementary thin film transistor circuit according to claim 4, the first-conductivity-type thin film transistor and the second-conductivity-type thin film transistor formed in a semiconductor film in which the single crystal grain is patterned in a rectangular shape.

- 7. The complementary thin film transistor circuit according to claim 1, the single crystal grain formed by carrying out a heat treatment on an amorphous or a polycrystalline semiconductor film.
- 8. The complementary thin film transistor circuit according to claim 7, the starting-point portion being a concave portion formed on an insulating substrate.
- 9. The complementary thin film transistor circuit according to claim 8, the single crystal grain formed by carrying out the heat treatment on the semiconductor film under a condition that the semiconductor film in the concave portion is not melted and the remaining portions are melted.
- 10. The complementary thin film transistor circuit according to claim 9, the heat treatment being laser irradiation.
- 11. The complementary thin film transistor circuit according to claim 7, the single crystal grain being a silicon single crystal grain formed by carrying out the heat treatment on the amorphous or the polycrystalline silicon film.
  - 12. An electro-optical device, comprising:
    the complementary thin film transistor circuit according to claim 1.
  - 13. An electronic apparatus comprising:the complementary thin film transistor circuit according to claim 1.